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PTO/SB/05 (#387)
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PATENT APPLICATION TRANSMITTAL

First Inventor or Application Identifier John M. Lipari

Title Novel Formulations Comprising Lipid-Requi

C.F.R. § 1.53(b)) Express Mail Label No. FF8355159611 IS

1	APPLICATION ELEMENTS	Assistant Commissioner for Patents ADDRESS TO: Box Patent Application		
	apter 600 concerning utility patent application contents.  Fee Transmittal Form (e.g., PTO/SB/17)	Washington, DC 20231  5. Microfiche Computer Program (Appendix)		
i i i i i i i i i i i i i i i i i i i	ubmit an original and a duplicate for fee processing) pecification [Total Pages 100]	Nucleotide and/or Amino Acid Sequence Submission		
(pr	referred arrangement set forth below)	(if applicable, all necessary)  a. Computer Readable Copy		
ł	Descriptive title of the Invention Cross References to Related Applications	b. Paper Copy (identical to computer copy)		
•	Statement Regarding Fed sponsored R & D	c. Statement verifying identity of above copies		
1	Reference to Microfiche Appendix Background of the Invention	ACCOMPANYING APPLICATION PARTS		
	Brief Summary of the Invention	7. Assignment Papers (cover sheet & document(s))		
	Brief Description of the Drawings ( <i>if filed)</i> Detailed Description	37 C.F.R.§3.73(b) Statement Power of		
•	Claim(s)	(when there is an assignee) L Attorney  9. English Translation Document (if applicable)		
	Abstract of the Disclosure	Information Disclosure Copies of IDS		
L	awing(s) (35 U.S.C. 113) [Total Sheets ]	Statement (IDS)/PTO-1449 Citations  11. Preliminary Amendment		
	Declaration [Total Pages 3 ]	Return Receipt Postcard (MPEP 503)		
a	Newly executed (original or copy)  Copy from a prior application (37 C.F.R. § 1.63(	(Should be specifically itemized)		
b. L	(for continuation/divisional with Box 16 completed)	Statement filed in prior application  Statement filed in prior application  Status still proper and desired		
	i. DELETION OF INVENTOR(S) Signed statement attached deleting	Certified Copy of Priority Document(s)		
	inventor(s) named in the prior application see 37 C.F.R §§ 1.63(d)(2) and 1.33(b).	(if foreign priority is claimed)		
FEES. A SMA	ITEMS 1 & 13 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY ALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT ED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).			
		er poly the requisite information below and in a preliminary amendment:		
Continuation Divisional Continuation-in-part (CIP) of prior application No.				
For CONTINU		Group / Art Unit: of the prior application, from which an oath or declaration is supplied		
reference. T	b, is considered a part of the disclosure of the accompan The incorporation <u>can only</u> be relied upon when a portion	ying continuation or divisional application and is hereby incorporated by has been inadvertently omitted from the submitted application parts.		
	17, CORRESPONDI	INCE ADDRESS		
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Name	Steven F. Weinstock			
	Abbott Laboratories			
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City	Abbott Park State	IL Zip Code 60064-3500		
Country	Telephone	(847) 937-8272 Fax (847) 938-2623		
Name (	PrintType) Dugal S. Sickert	Registration No. (Attorney/Agent) 33,784		
Signatur		Date 12/18/98		

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Patent fees are subject to annual revision on October 1.	-	Filing Date				John M. Lipari		
These are the fees effective October 1, 1997 Small Entity payments <u>must</u> be supported by a small entity staten	nent,	First Named Inventor J		ioi laoini M	. Lipari			
otherwise large entity fees must be paid. See Forms PTO/SB/09	-12.	72. Examiner Name						
See 37 C F.R. §§1.27 and 1.28.		Group	/ Art I	Jnit				
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## Novel Formulations Comprising Lipid-Regulating Agents

### Field of the Invention

The present invention relates to novel formulations for oral administration comprising lipid-regulating agents.

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#### Background of the Invention

2-[4-(4-chlorobenzoyl)phenoxy]-2-methyl-propanoic acid, 1-methylethylester, also known as fenofibrate, is representative of a broad class of compounds having pharmaceutical utility as lipid regulating agents. More specifically, this compound is part of a lipid-regulating agent class of compounds commonly known as fibrates, and is disclosed in U.S. Patent No. 4,058,552.

Fenofibrate has been prepared in several different formulations, c.f., U.S. Patent No. 4,800,079 and U.S. Patent No. 4,895,726. U.S. Patent No. 4,895,726 discloses a comicronized formulation of fenofibrate and a solid surfactant.

U.S. Patent No. 4,961,890 discloses a process for preparing a controlled release formulation containing fenofibrate in an intermediate layer in the form of crystalline microparticles included within pores of an inert matrix. The formulation is prepared by a process involving the sequential steps of dampening said inert core with a solution based on said binder, then projecting said fenofibrate microparticles in a single layer onto said dampened core, and thereafter drying, before said solution based on said binder dissolves said fenofibrate microparticles, and repeating said three steps in sequence until said intermediate layer is formed.

European Patent Application No. EP0793958A2 discloses a process for producing a fenofibrate solid dosage form utilizing fenofibrate, a surface active agent and polyvinyl pyrrolidone in which the fenofibrate particles are mixed with a polyvinyl pyrrolidone solution. The thus obtained mixture is granulated with an aqueous solution of one or more surface active agents, and the granulate thus produced is dried.

PCT Publication No. WO 82/01649 discloses a fenofibrate formulation having granules that are comprised of a neutral core that is a mixture of saccharose and starch. The

neutral core is covered with a first layer of fenofibrate, admixed with an excipient and with a second microporous outer layer of an edible polymer.

U.S. Patent No. 5,645,856 describes the use of a carrier for hydrophobic drugs, including fenofibrate, and pharmaceutical compositions based thereon. The carrier comprises a digestible oil and a pharmaceutically-acceptable surfactant component for dispersing the oil in vivo upon administration of the carrier, which comprises a hydrophilic surfactant, said surfactant component being such as not to substantially inhibit the in vivo lipolysis of the digestible oil.

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Gemfibrozil is another member of the fibrate class of lipid-regulating agents. U.S. Patent No. 4,927,639 discloses a disintegratable formulation of gemfibrozil providing both immediate and sustained release, comprising a tablet compressed from a mixture of a first and second granulation, and a disintegration excipient operable to effect partial or complete disintegration in the stomach. The first granulation comprises finely divided particles of pure gemfibrozil granulated with at least one cellulose derivative, and the second granulation comprises finely divided particles of pure gemfibrozil granulated with a pharmaceutically-acceptable water soluble or insoluble polymer which are then uniformly coated with a pharmaceutically-acceptable (meth)acylate copolymer prior to admixture with the first granulation. The first and second granulations are present in the final composition in a ratio of from about 10:1 to about 1:10.

U.S. Patent 4,925,676 discloses a disintegratable gemfibrozil tablet providing both immediate and enteric release, which is compressed from a mixture of a first granulation of gemfibrozil with at least one acid-disintegratable binder, and a second granulation formed from the first granulation, but regranulated or coated with an alkali-disintegratable formulation of at least one substantially alkali-soluble and substantially acid-insoluble polymer.

Another class of lipid-regulating agents are commonly known as statins, of which pravastatin and atorvastatin are members. U.S. Patents 5,030,447 and 5,180,589 describe stable pharmaceutical compositions, which when dispersed in water have a pH of at least 9, and include a medicament which is sensitive to a low pH environment, such as prevastatin, one or more fillers such as lactose and/or microcrystalline cellulose, one or more binders, such as microcrystalline cellulose (dry binder) or polyvinylpyrrolidone (wet binder), one or more disintegrating agents such as croscarmellose sodium, one or more lubricants such as magnesium stearate and one or more basifying agents such as magnesium oxide.

It is an object of the present invention to provide formulations for oral administration comprising lipid-regulating agents having enhanced bioavailability when compared to commercially available formulations.

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#### Summary of the Invention

The present invention is directed to formulations for oral administration comprising a lipid-regulating agent, further comprising at least one structured lipid as the primary solvent medium for the lipid-regulating agent. One or more emulsifiers may be added to the formulation.

The formulation may be administered directly, diluted into an appropriate vehicle for administration, encapsulated into soft or hard gelatin shells or capsules for administration, or administered by other means obvious to those skilled in the art.

Brief Description of the Drawings

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Figure 1 is a graph showing the plasma concentration in fasted dogs of the formulation of Example 1 and a reference composition.

Figure 2 is a graph showing the plasma concentration in fasted dogs of the formulation of Example 2 and a reference composition.

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### Detailed Description of the Invention

The bulk lipid-regulating agent can be prepared by any available method, as for example the compound fenofibrate may be prepared by the procedure disclosed in U.S. Patent No. 4,058,552 or the procedure disclosed in U.S. Patent No. 4,739,101, both herein incorporated by reference.

Representative structured lipids include, but are not limited to,

caprylic/capric/lauric triglycerides, e.g., Captex 350<sup>TM</sup> (Abitec) and
caprylic/capric/linoleic triglycerides, e.g., Captex 810 series (Abitec) and Miglyol 818
(Creanova), and in general, include those lipids containing saturated medium and longchain fatty acids esterified to the same glycerol molecule. A preferred structured lipid
is a caprylic/capric/lauric triglyceride, e.g., Captex 350<sup>TM</sup> (Abitec).

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Suitable emulsifiers include pharmaceutically acceptable surfactants such as, for example, TPGS (d-aalpha Tocopheryl Polyethylene Glycol 1000 Succinate), phospholipids, polyoxyethylene sorbitan fatty acid derivatives, castor oil or hydrogenated castor oil ethoxylates, polyglycerol esters of fatty acids, fatty acid ethoxylates, alcohol ethoxylates, polyoxyethylene-polyoxypropylene co-polymers and block co-polymers. Preferred emulsifiers include polyglycerol esters of fatty acids. A more preferred emulsifier is Caprol 6620, a polyglycerol-6 dioleate (Abitec).

Other optional ingredients which may be included in the compositions of the present invention are those which are conventionally used in oil-based drug delivery systems, e.g. antioxidants such as, for example, tocopherol, ascorbyl palmitate, ascorbic acid, butylated hydroxytoluene, butylated hydroxyanisole, propyl gallate, etc.; pH stabilizers such as, for example, citric acid, tartaric acid, fumaric acid, acetic acid, glycine, arginine, lysine, potassium hydrogen phosphate, etc.; thickeners/suspending agents such as, for example, hydrogenated vegetable oils, beeswax, colloidal silicon dioxide, gums, celluloses, silicates, bentonite, etc.; flavoring agents such as, for example, cherry, lemon, aniseed flavors, etc.; sweeteners such as aspartame, saccharin, cyclamates, etc.; and co-solvents such as, for example, ethanol, propylene glycol, dimethyl isosorbide, etc.

The solution comprising the lipid-regulating agent is prepared by dissolving said agent in the structured lipid with adequate mixing at or about room temperature. If an emulsifier is used, it is added to the structured lipid with mixing prior to addition of the lipid-regulating agent.

The resulting premix liquid comprising the lipid-regulating agent may be dosed directly for oral administration, diluted into an appropriate vehicle for oral administration, filled into soft or hard gelatin capsules for oral administration, or delivered by some other means obvious to those skilled in the art. The premix liquid can be used to improve the oral bioavailability, and/or increase the solubility of said agent.

The invention will be understood more clearly from the following non-limiting representative examples.

### Example 1

Miglyol 818 (Creanova) (8.3 gm)was added to a scintillation vial. Caprol 6G20 (polyglycerol-6 dioleate) (Abitec) (1.0 gm) was added to the vial and mixed until uniform. Fenofibrate (Sigma) (0.7 gm) was then added to the vial and mixed until it was completely dissolved. 957 mg. of the premix (containing 67 mg. fenofibrate) was added to each of six soft gelatin capsules using a syringe. The capsules were heat sealed and stored.

10 Example 2

Miglyol 818 (Creanova)(9.3 gm) was added to a scintillation vial. Fenofibrate (Sigma) (0.7 gm) was added to the Miglyol and mixed until completely dissolved. 957 mg. of the premix (containing 67 mg. fenofibrate) was added to each of six soft gelatin capsules using a syringe. The capsules were heat sealed and stored.

#### Example 3

Capsules prepared by the process described in Example 1 and 2, and from a commercial fenofibrate composition, Lipanthyl 67M (Groupe Fornier) (Reference), were each administered to a group of fasted dogs at a dose of 67 mg/dog (one capsule per dog). The plasma concentrations of fenofibric acid were determined by HPLC. Concentrations were normalized to a 6.7 mg/kg dose in each dog. Figures 1 and 2 present the resulting data in graph form.

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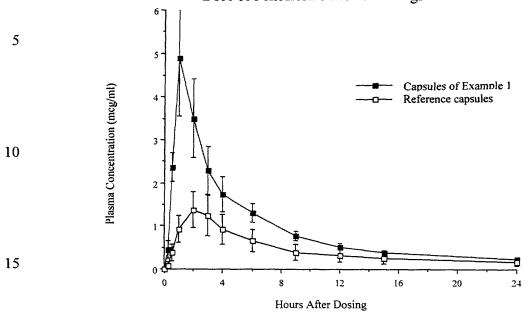
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Figure 1

Mean (±SEM, n=6) Plasma Concentrations of Fenofibric Acid after a 67 mg Capsule

Dose of Fenofibrate in Fasted Dogs



Note: 67 mg dose administered to n=6 dogs; concentrations normalized to a 6.7 mg/kg dose.

The results, provided as mean  $\pm$  SD, n = 6 were as follows:

Lipanthyl 67M (reference):

 $Cmax = 1.88 \pm 0.97 \text{ mcg/ml}$ 

 $Tmax = 1.6 \pm 0.9 \text{ hr}$ 

25  $t_{1/2} = 4.5 \text{ hr}$ 

AUC  $(0-24) = 11.08 \pm 9.42 \text{ mcg} \cdot \text{hr/ml}$ 

 $F(\%) = 21.1 \pm 11.8$ 

Capsules of Example 1:

30  $Cmax = 5.13 \pm 3.12 \text{ mcg/ml}$ 

 $Tmax = 1.0 \pm 0.5 hr$ 

 $t_{1/2} = 6.9 \text{ hr}$ 

AUC  $(0-24) = 23.62 \pm 10.61 \text{ mcg} \cdot \text{hr/ml}$ 

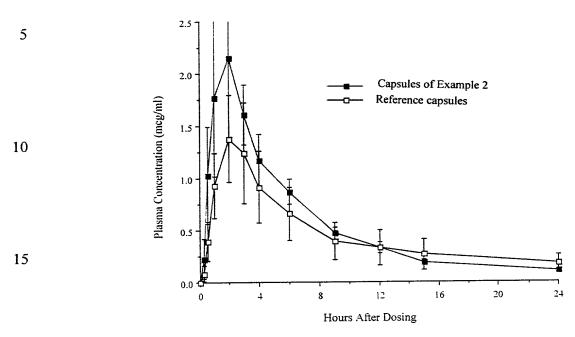
 $F(\%) = 49.1 \pm 21.9$ 

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Figure 2

Mean (±SEM, n=6) Plasma Concentrations of Fenofibric Acid after a 67 mg Capsule

Dose of Fenofibrate in Fasted Dogs



Note: 67 mg dose administered to n=6 dogs; concentrations normalized to a 6.7 mg/kg dose.

The results, provided as mean  $\pm$  SD, n = 6 were as follows:

Lipanthyl 67M (reference):

$$Cmax = 1.88 \pm 0.97 \text{ mcg/ml}$$

25 
$$Tmax = 1.6 \pm 0.9 \text{ hr}$$

$$t_{1/2} = 4.5 \text{ hr}$$

AUC 
$$(0-24) = 11.08 \pm 9.42 \text{ mcg} \cdot \text{hr/ml}$$

$$F(\%) = 21.1 \pm 11.8$$

30 Capsules of Example 2:

$$Cmax = 2.56 \pm 1.90 \text{ mcg/ml}$$

$$Tmax = 1.8 \pm 0.8 \text{ hr}$$

$$t_{1/2} = 5.4 \text{ hr}$$

AUC 
$$(0-24) = 13.47 \pm 6.62 \text{ mcg} \cdot \text{hr/ml}$$

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$$F(\%) = 27.9 \pm 13.6$$

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#### Claims

- 1. A composition comprising a lipid-regulating agent dissolved in at least one structured lipid.
- 2. A composition of claim 1 wherein the lipid-regulating agent is a fibrate.
- 3. A composition of claim 2 wherein the fibrate is fenofibrate.
- 4. A composition of claim 1 wherein at least one or more of the structured lipids is selected from caprylic/capric/lauric triglycerides and caprylic/capric/linoleic triglycerides.
- 5. A composition of claim 4 wherein the structured lipid is a caprylic/capric/lauric triglyceride.
  - 6. A composition of claim 1 further comprising at least one emulsifier.
- 7. A composition of claim 6 wherein at least one emulsifier is selected from a polyglycerol ester of a fatty acid.
  - 8. A composition of claim 7 wherein the polyglycerol ester of a fatty acid is a polyglycerol-6 dioleate.
- 25 9. A composition of claim 1 that contains a therapeutically-effective amount of a lipid-regulating agent.
  - 10. A composition of claim 9 wherein the lipid-regulating agent is a fibrate.
- 30 11. A composition of claim 10 wherein the fibrate is fenofibrate.
  - 12. A capsule comprising a composition of claim 1.
  - 13. A capsule of claim 12 wherein the lipid regulating agent is a fibrate.
  - 14. A capsule of claim 13 wherein the fibrate is fenofibrate.

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- 15. A method of treating hyperlipidemia comprising the administration of a composition of claim 1 to a patient.
- 16. A method of treating hyperlipidemia comprising the administration of a5 composition of claim 9 to a patient.
  - 17. A method of claim 16 wherein the lipid-regulating agent is a fibrate.
  - 18. A method of claim 17 wherein the fibrate is fenofibrate.
  - 19. A composition of claim 1 further comprising at least one co-solvent.
  - 20. A composition of claim 19 wherein at least one co-solvent is selected from ethanol, propylene glycol, and dimethyl isosorbide.

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## <u>Abstract</u>

The present invention is directed to a formulation comprising a lipid-regulating agent dissolved in at least one structured lipid as the primary solvent medium for said agent. One or more emulsifiers may be added to the formulation.

## PATENT IN THE UNITED STATES PATENT & TRADEMARK OFFICE

APPLICANT: J. M. Lipari, et al.

SERIAL NO.: (not yet assigned)

FILED: December 18, 1998

FOR: NOVEL FORMULATIONS

COMPRISING LIPID-REGULATING AGENTS

EXAMINER: (not yet assigned)

CASE NO.: 6439.US.O1

GROUP ART UNIT: (not yet assigned)

DATE: December 18, 1998

Express Mail No.: EE835515961US

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as U.S. Express Mail, Post Office to Addressee Service under 37 C.F.R. 1.10 addressed to:

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Date of Deposit: December 18, 1998

Kathleen J. Lity 12/18/98
Kathleen T. Litz Date

# DECLARATION AND POWER OF ATTORNEY FOR A UNITED STATES PATENT APPLICATION

As a below-named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name. I believe I am an original and first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled NOVEL FORMULATIONS COMPRISING LIPID-REGULATING AGENTS, the specification of which is attached.

I hereby state that I have reviewed and understand the contents of the above-mentioned specification, including the claims.

I acknowledge a duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

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I hereby claim foreign priority benefits under 35 U.S.C. '119 for the following foreign applications for patent or inventors certificate.

**NONE** 

The following foreign applications for patent or inventor's certificate have a filing date earlier than the filing date of the applications identified above.

**NONE** 

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I hereby claim the benefit under 35 U.S.C.'120 of the following earlier-filed United States patent applications. Insofar as the subject matter of each of the claims of this application is not disclosed in the prior U.S. applications in the manner required by 35 U.S.C. '112, first paragraph, I acknowledge a duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. '1.56 which came into existence between the filing date(s) of the prior applications and the national or PCT filing date of this application.

#### **NONE**

I hereby appoint the following Attorneys and/or agents to prosecute this application and any continuation or divisional applications based hereon, and to transact all business in the Patent and Trademark Office connected therewith:

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Tom Reiland	Date					